

Appl. No. 10/758,375
Docket No. 9161Q
Amdt. dated November 30, 2006
Reply to Office Action mailed on October 30, 2006
Customer No. 27752

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. 1. (Currently Amended) A disposable absorbent article comprising : ~~a durable, hydrophilic substantially liquid pervious topsheet, said substantially liquid pervious topsheet comprising~~
a durable, hydrophilic substantially liquid pervious topsheet;
a backsheet; and
an absorbent core disposed between the topsheet and the backsheet, wherein said substantially liquid pervious topsheet comprises:
 - (a) a topsheet substrate; and
 - (b) a hydrophilicity boosting composition coated on said topsheet substrate, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles have a particle size of from about 1 to about 750 nanometers, and wherein said topsheet substrate has been treated with a high energy surface treatment.
2. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said topsheet substrate is selected from the group consisting of porous polymeric films, nonwoven materials and combinations thereof.
3. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 2 wherein said topsheet substrate is a nonwoven material and wherein said nonwoven material comprises fibers selected from the group consisting of polyolefins, polyesters, cellulose and combinations thereof.
4. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 3 wherein said nonwoven material comprises fibers selected from the group consisting of polypropylene, polyethylene, polyethylene terephthalate, rayon and combinations thereof.

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5. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said nanoparticles are inorganic nanoparticles.
6. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 5 wherein said nanoparticles are selected from the group consisting of titanium dioxide, layered clay minerals, alumina oxide, silicates, and combinations thereof.
7. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 6 wherein said nanoparticles are selected from the group consisting of titanium dioxide, Boehmite alumina, sodium magnesium lithium fluorosilicates and combinations thereof.
8. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said hydrophilicity boosting composition further comprises a surfactant.
9. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim ~~[[1]]~~8 wherein said surfactant is a nonionic surfactant.
10. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said absorbent core comprises a storage layer and wherein said storage layer comprises material selected from the group consisting of absorbent gelling material, fluff, and mixtures thereof.
11. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said ~~disposable absorbent article further comprises a~~ backsheet is substantially liquid impervious ~~backsheet and an absorbent core, wherein said absorbent core is between said topsheet and said backsheet.~~
12. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 1 wherein said disposable absorbent article is selected from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.

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13. (Cancelled)
14. (Currently Amended) ~~[[A]]~~The disposable absorbent article according to Claim 13 ~~1~~ wherein said high-energy surface treatment is selected from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
15. (Currently Amended and Withdrawn) A process for making a disposable absorbent article comprising a durable, hydrophilic substantially liquid pervious topsheet, said process comprising the ~~step~~ steps of:
selecting a topsheet substrate from the group consisting of porous polymeric films, nonwoven materials and combinations thereof;
treating said topsheet substrate with a high energy surface treatment; and
coating ~~[[a]]~~ said topsheet substrate with a hydrophilicity boosting composition, said hydrophilicity boosting composition ~~comprises~~comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles having a particle size of from about 1 to about 750 nanometers, ~~[[.]]~~
wherein the step of treating said topsheet substrate with a high energy surface treatment occurs prior to or concurrently with the coating of the topsheet substrate.
16. (Currently Amended and Withdrawn) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 further comprising the step of selecting said ~~wherein prior to or concurrent with coating of said substrate, said substrate is treated with~~ a high energy surface treatment ~~said high energy surface treatment is selected from the~~ group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
17. (Currently Amended and Withdrawn) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 wherein hydrophilicity boosting composition further comprises a carrier and a surfactant.

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18. (Currently Amended and Withdrawn) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 wherein said nanoparticles are inorganic nanoparticles.
19. (Cancelled)
20. (Currently Amended and Withdrawn) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 further comprising the step of selecting wherein said disposable absorbent article ~~is selected~~ from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.